

**Please replace the Abstract as originally filed with the following:**

A method for analysis of DNA data. A DNA source image is generated based on the DNA data. A digital bit-map is created from the DNA source image plotting image intensity data against a two-dimensional coordinate system from an initial viewpoint. An image model is generated based on the digital bit-map. The image model comprises model data representing the image intensity data as virtual points on a three-dimensional coordinate system further incorporating the two-dimensional coordinate system of the digital bit map. A DNA analysis image is generated based on the image model. The DNA analysis image represents the model data from an analysis viewpoint with respect to the two-dimensional coordinate system. The analysis viewpoint differs from the initial viewpoint. The DNA analysis image is then displayed.